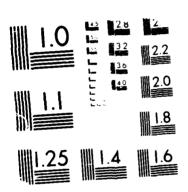
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## ON MODELING THE DISTRIBUTION OF NON-GAUSSIAN AMBIENT NOISE

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## ABSTRACT

The applicability of tractable first-order non-Gaussian models for the ambient noise probability distribtion is investigated. The models considered here are the Gauss-Gauss mixture model and the Johnson S system of probability density functions. The moment generating function method is used to fit the sample data to the Gauss-Gauss mixture model while the method of quantile matching is used to fit the data to the Johnson probability density functions. The results show that the Johnson system may be computationally more tractable in its

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